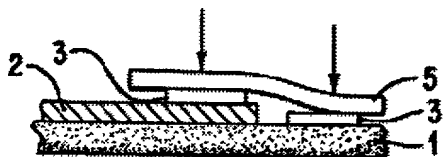
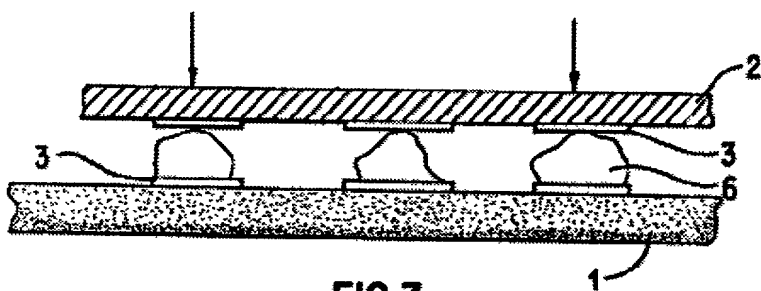


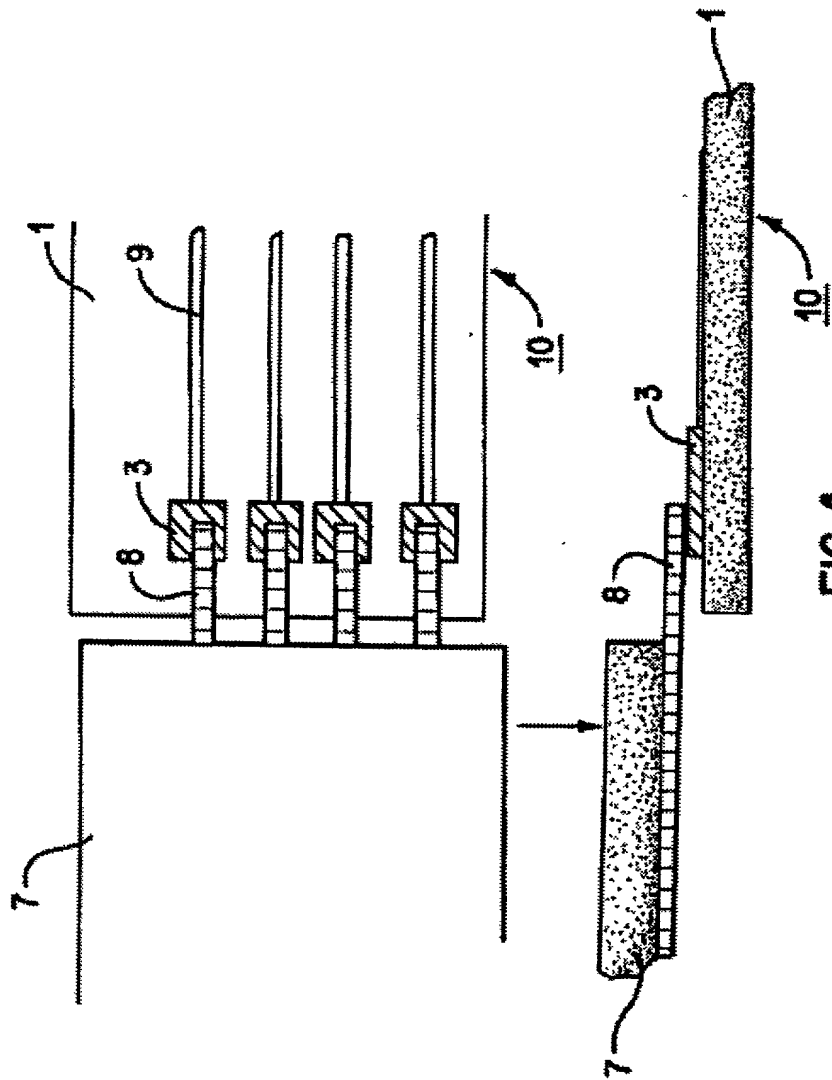
**FIG. 1**  
PRIOR ART



**FIG. 2**  
PRIOR ART



**FIG. 3**  
PRIOR ART



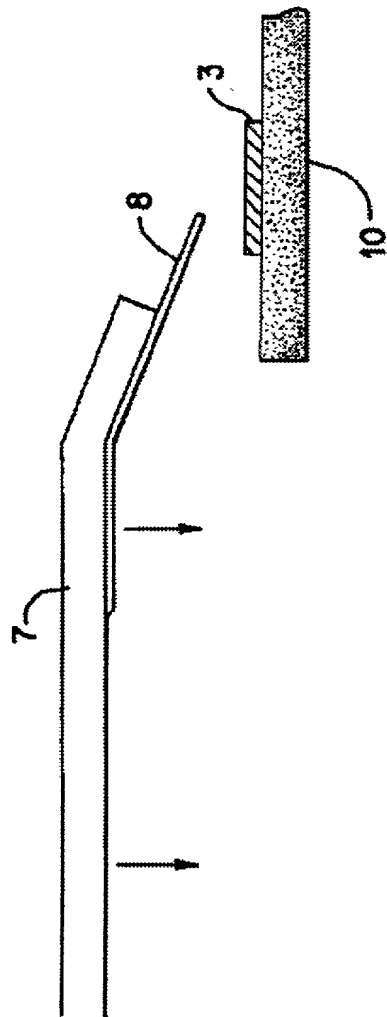


FIG. 5  
PRIOR ART

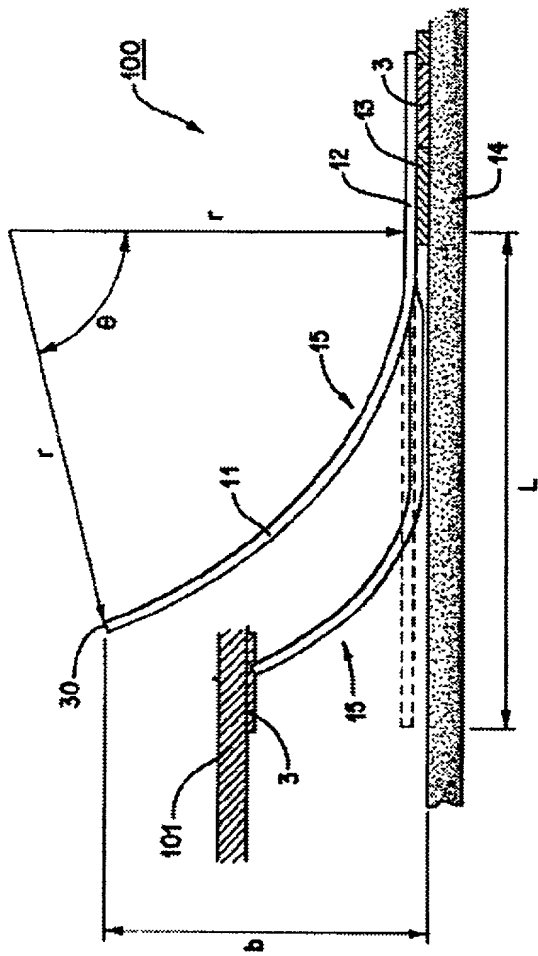


FIG. 6

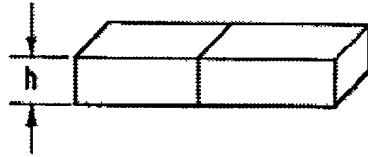


FIG. 7

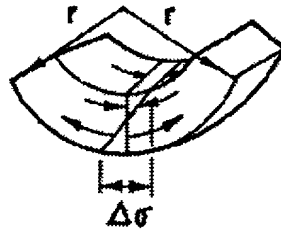


FIG. 8

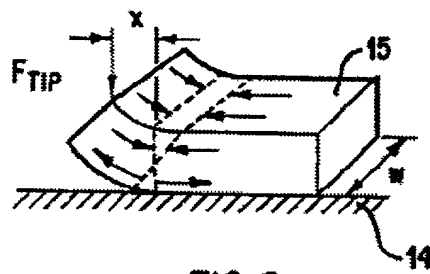


FIG. 9

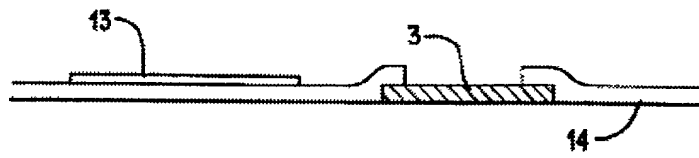


FIG. 10



FIG. 11

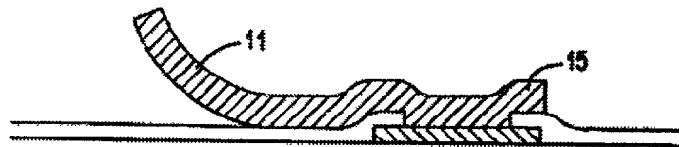


FIG. 12

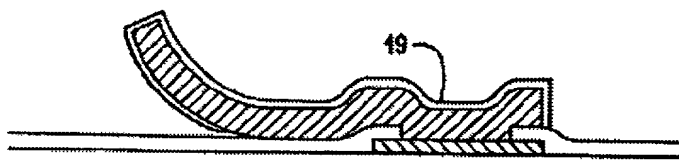


FIG. 13

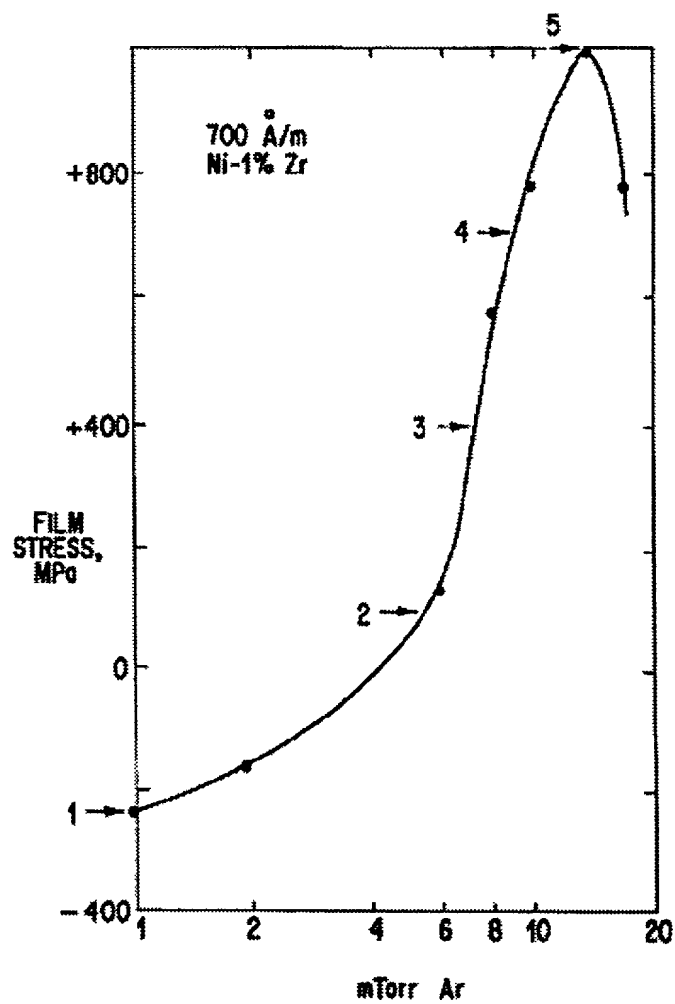


FIG.14

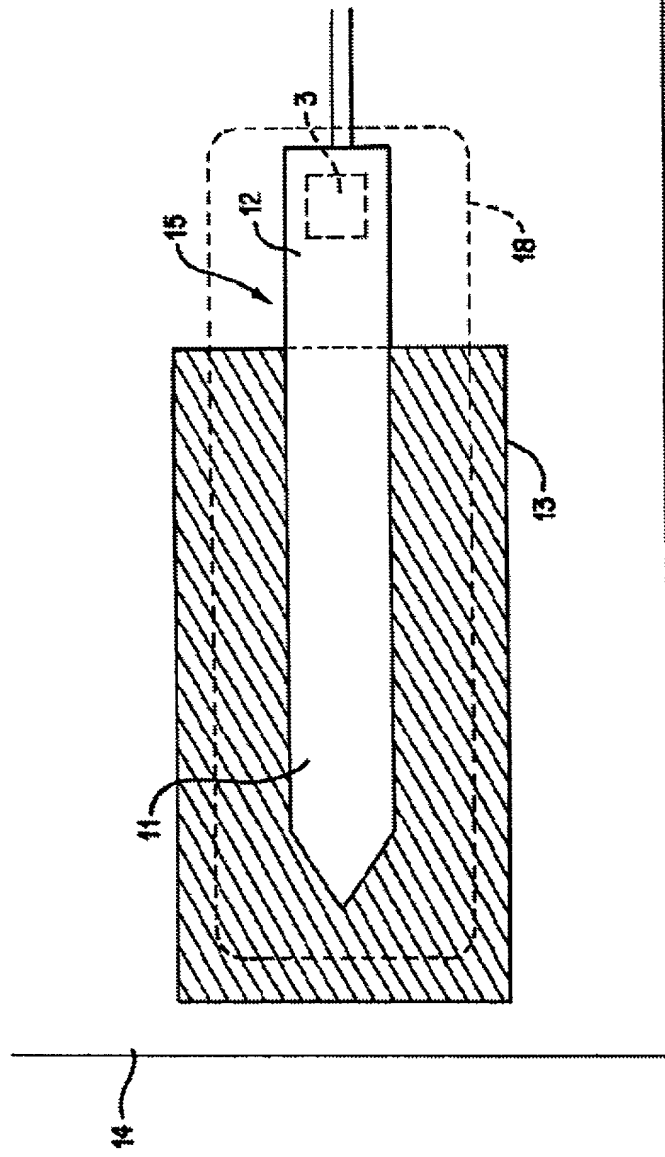
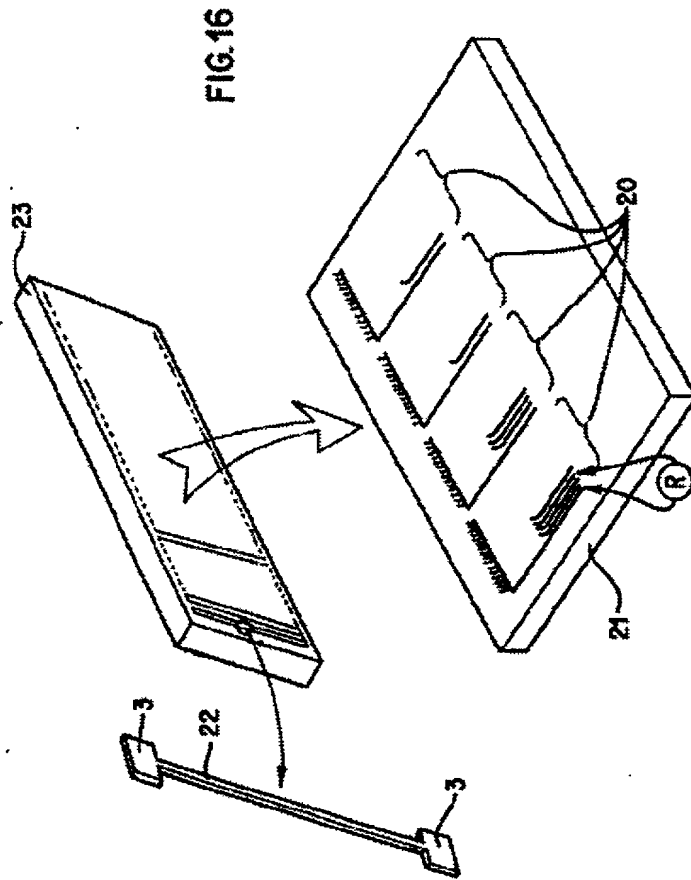


FIG. 15





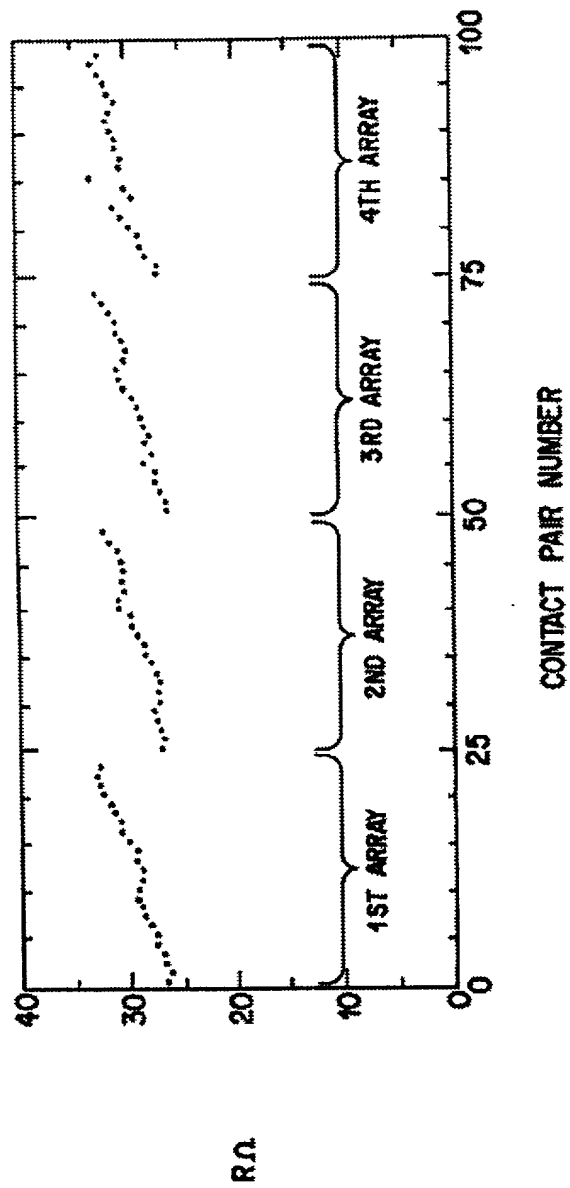


FIG.17

Graph showing the relationship between  $n$  (Y-axis, 0 to 3) and  $b$ , HEIGHT,  $\mu\text{m}$  (X-axis, 100 to 0). The curve illustrates the resistance components:

- CONDUCTOR TO CONTACT PAD (0 to ~0.7)
- CONDUCTOR TO SPRING CONTACT (~0.7 to ~1.3)
- RESISTANCE DUE TO SPRING CONTACT TIP SHARE (~1.3 to ~1.5)

11

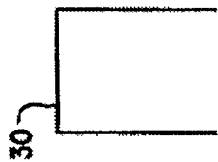


FIG. 19

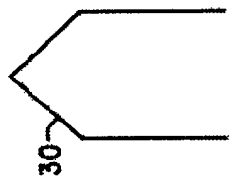


FIG. 20

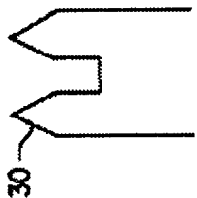


FIG. 21

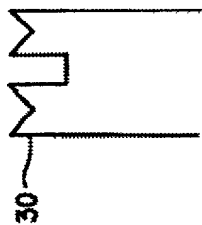


FIG. 22

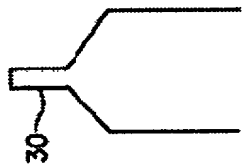


FIG. 23

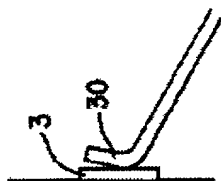


FIG. 24

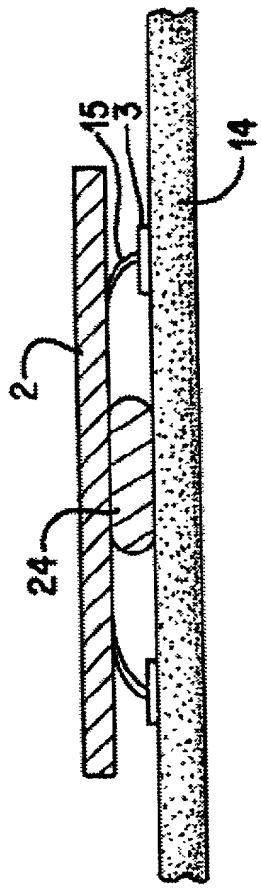


FIG. 25

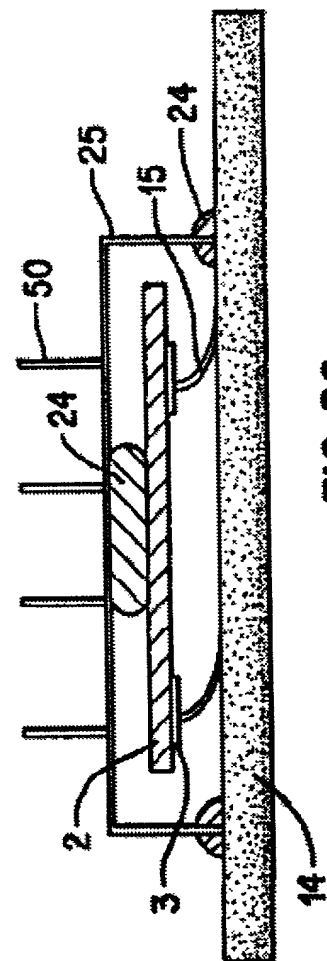


FIG. 26

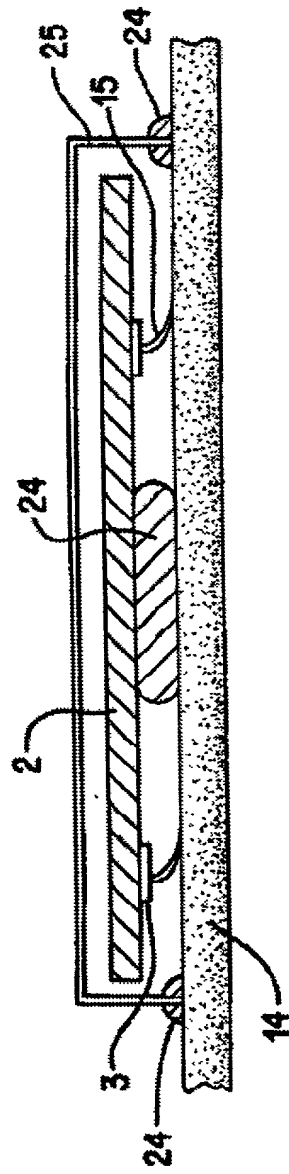


FIG. 27

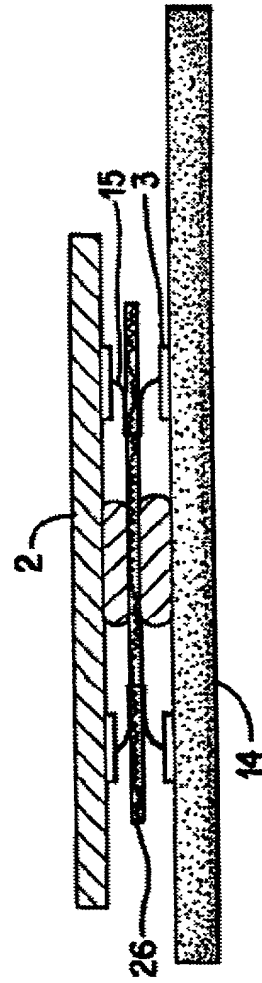


FIG. 28

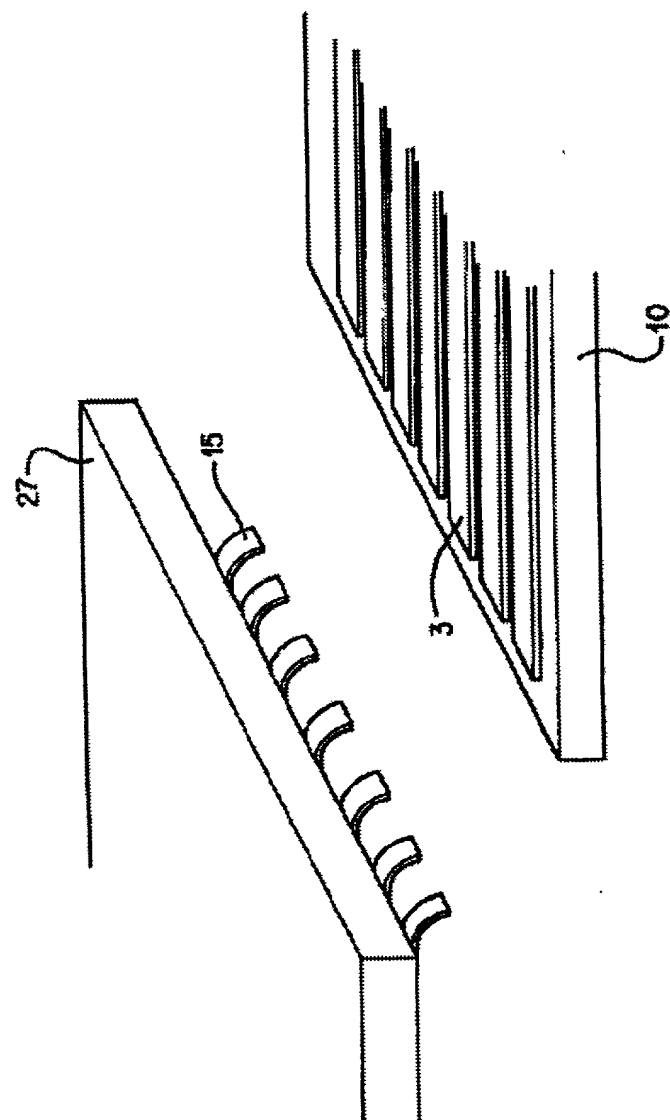


FIG. 29

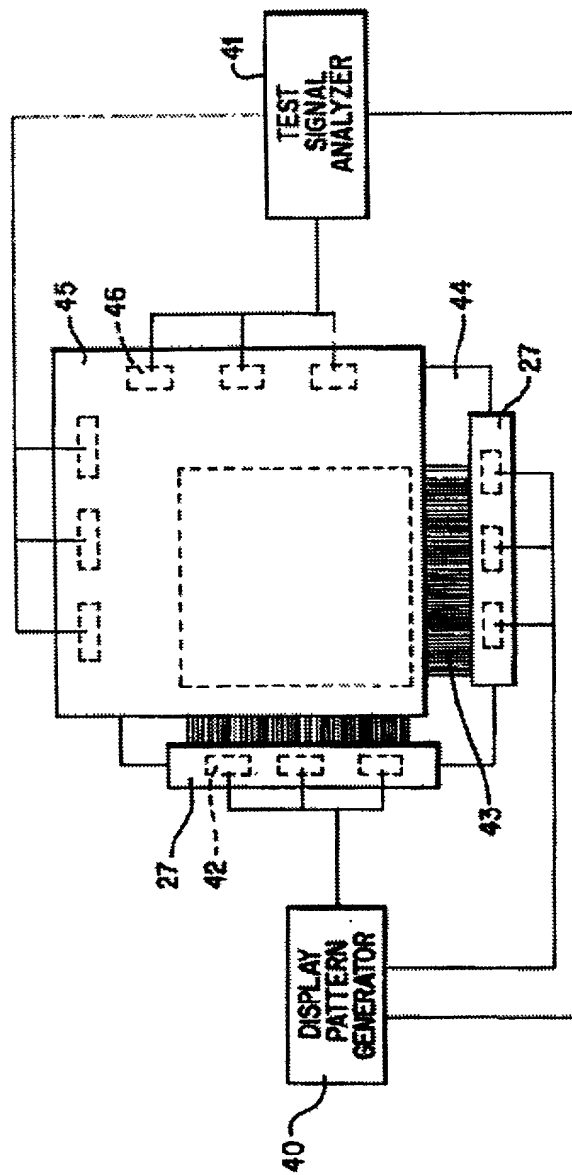


FIG. 30



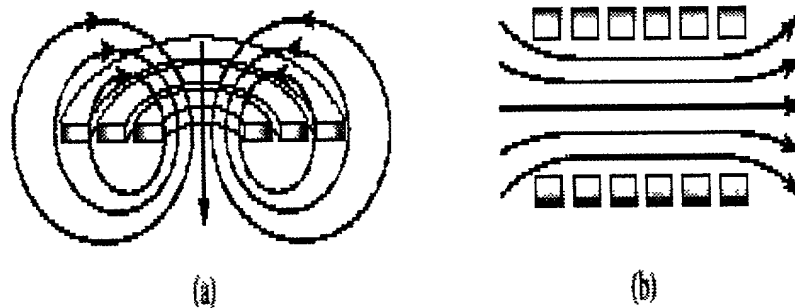


Figure 31

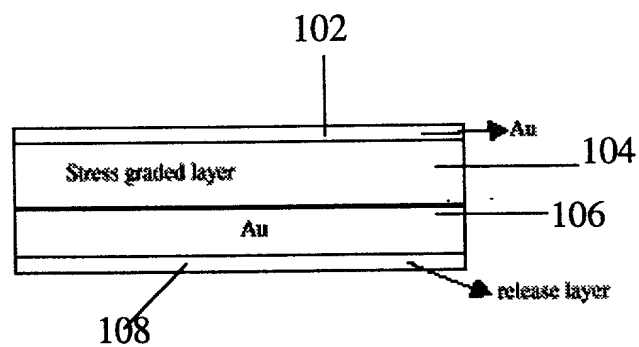


Figure 32

Constant Radius Structure

108 Release layer

106 Conductance layer

104 Spring metal

100 Substrate

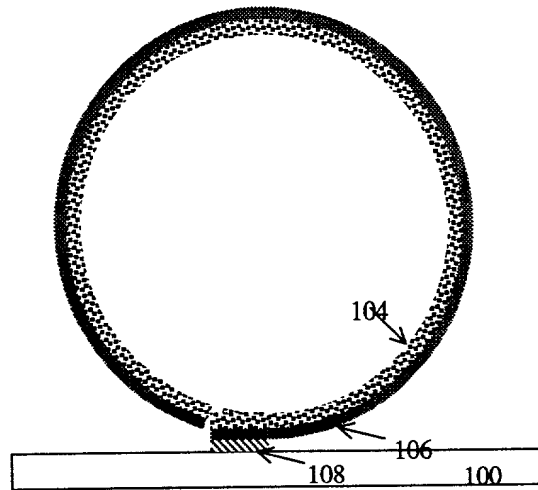


Figure 33

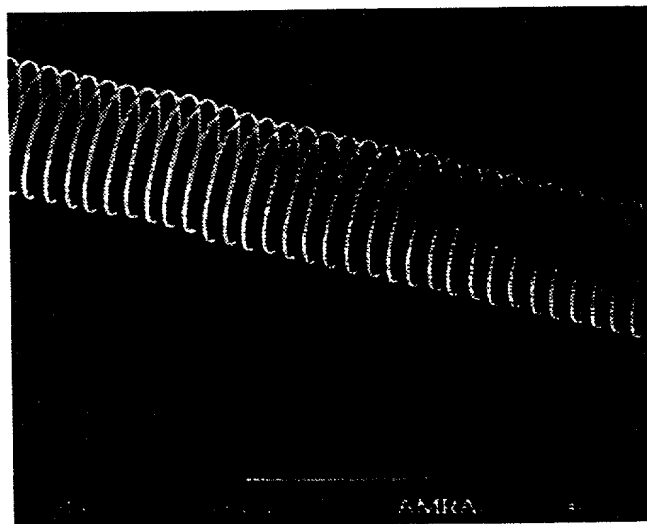


Figure 34

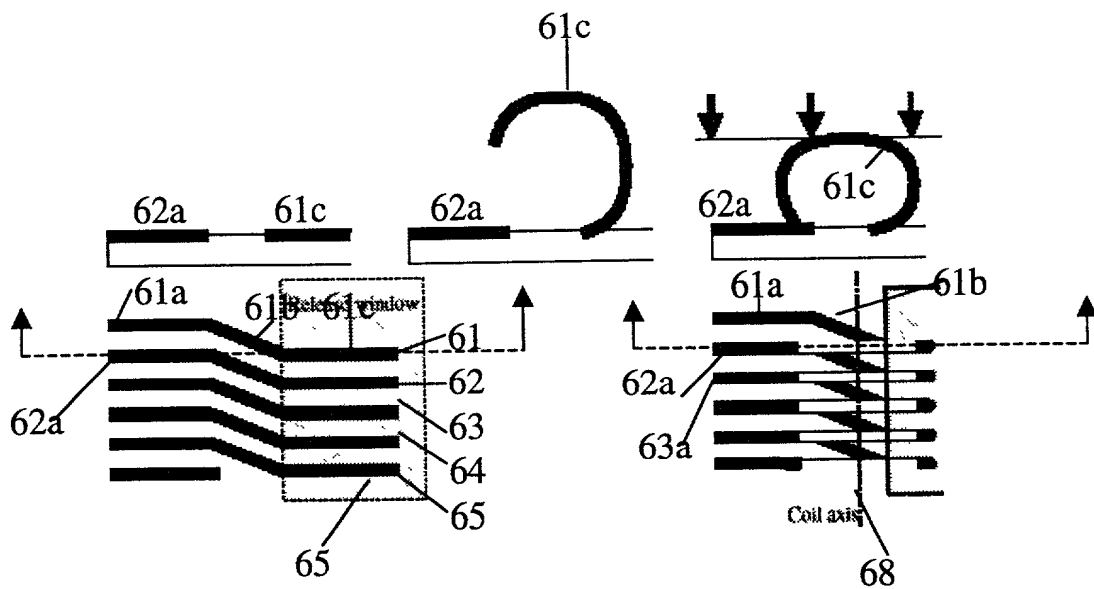


Figure 35

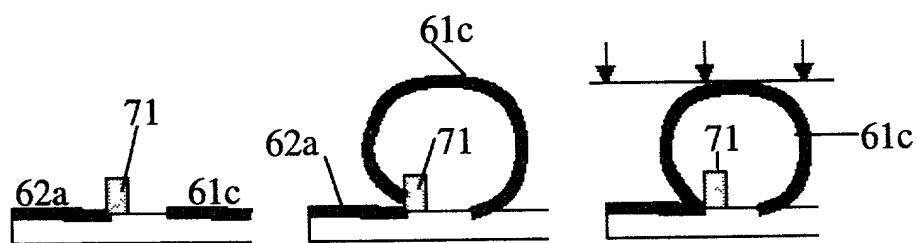


Figure 36

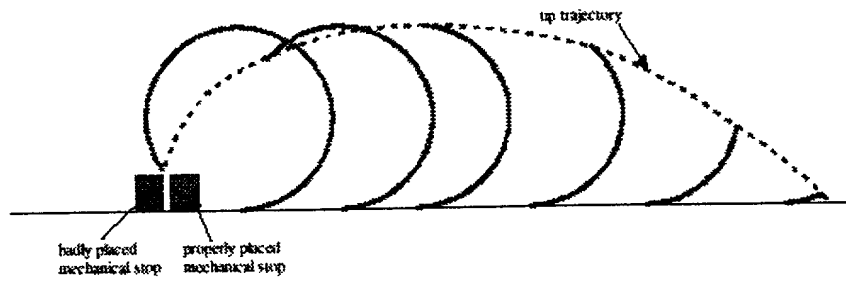


Figure 37

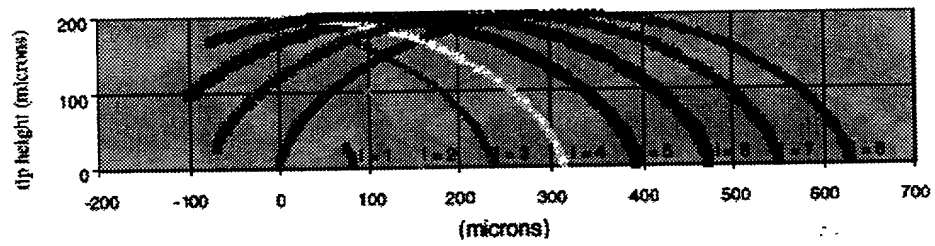


Figure 38

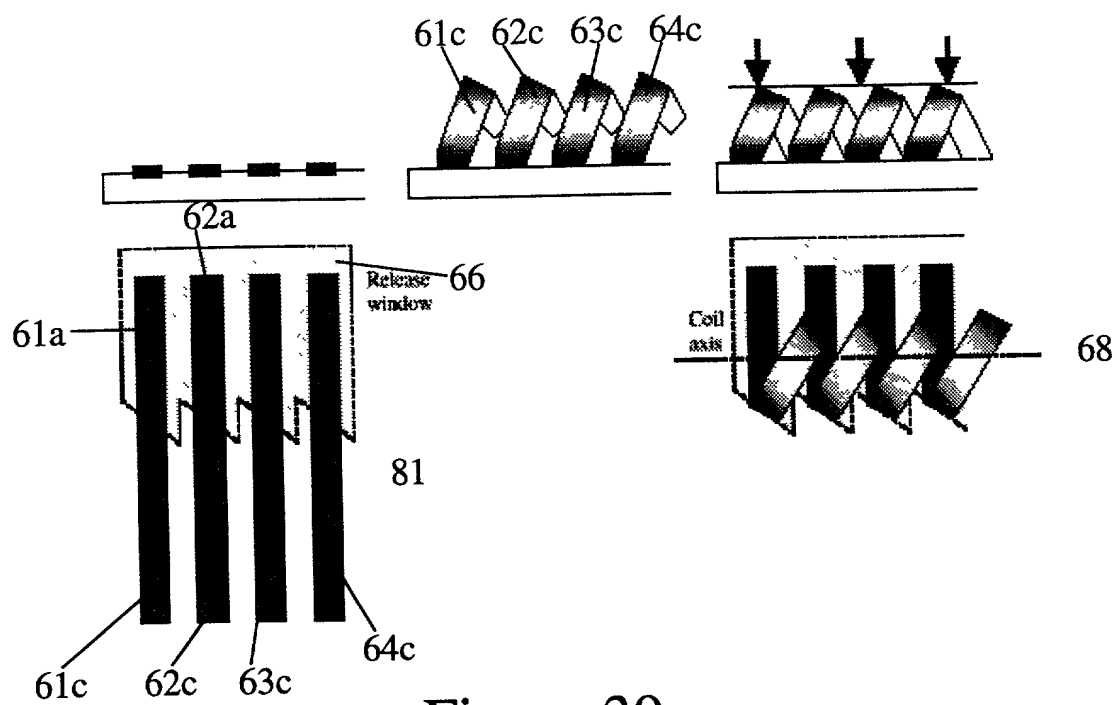


Figure 39

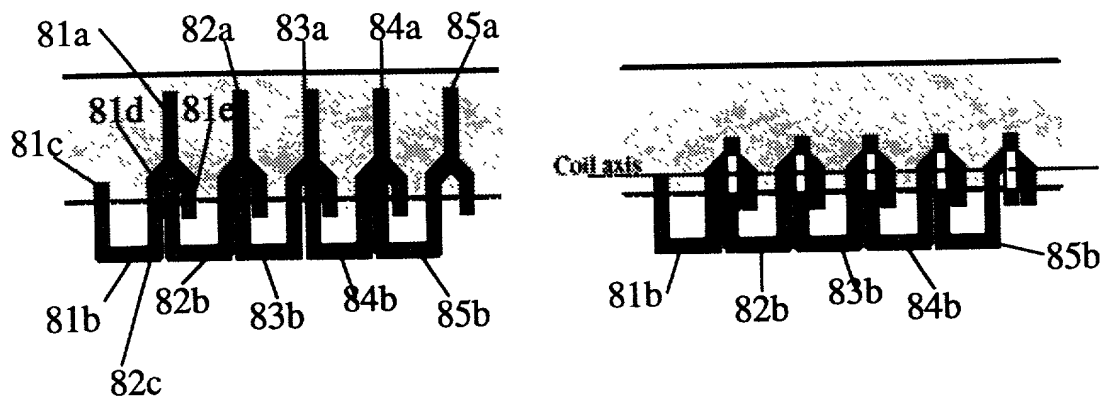


Figure 40

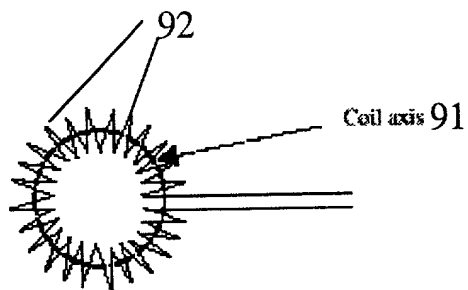


Figure 41

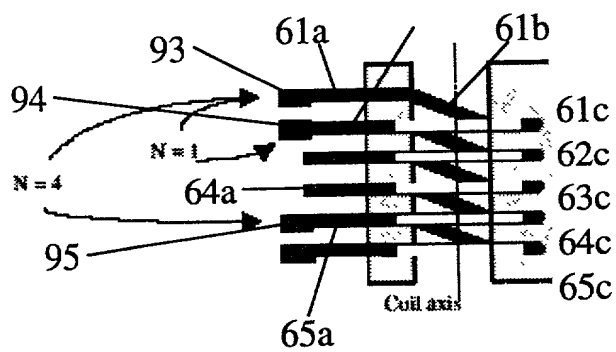


Figure 42

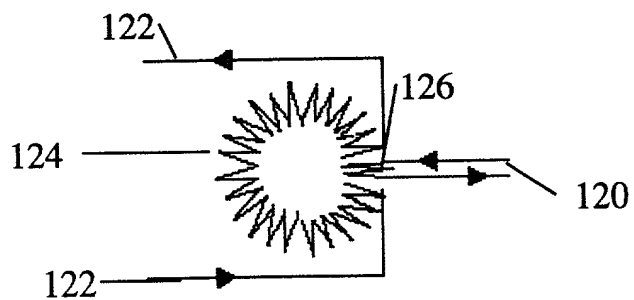


Figure 43

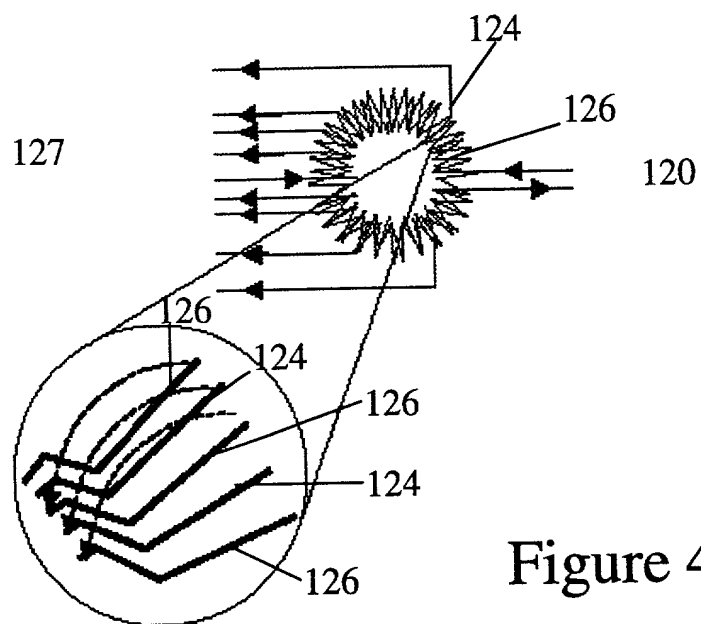


Figure 44

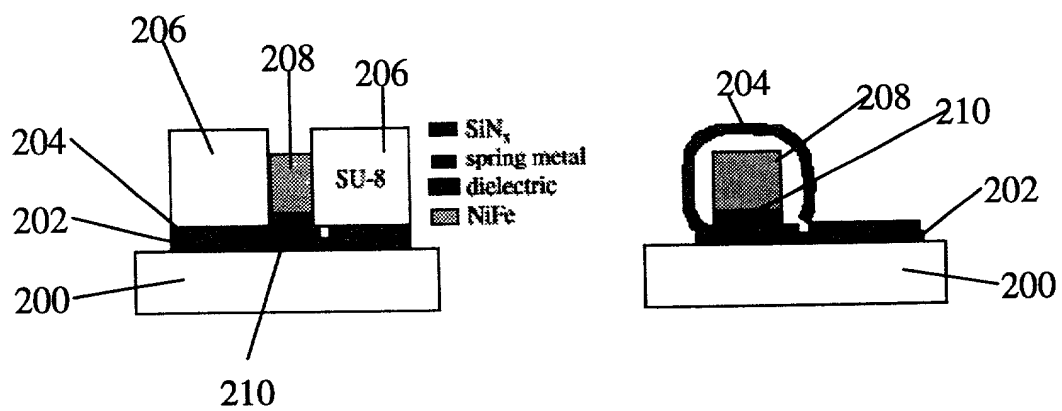


Figure 45

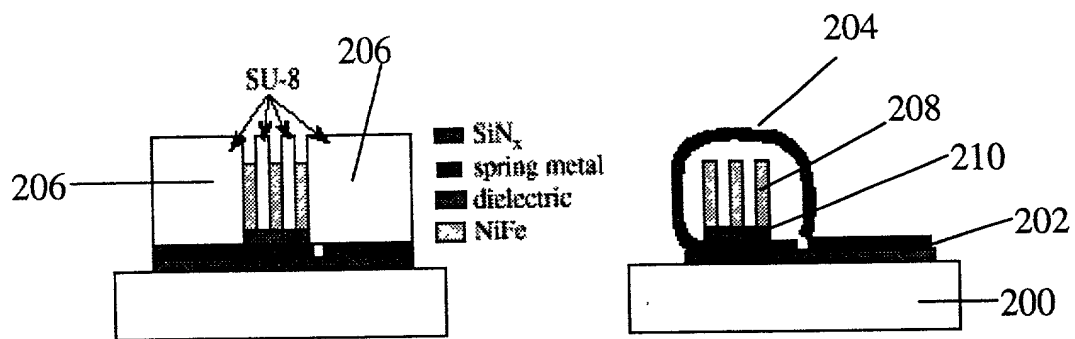


Figure 46

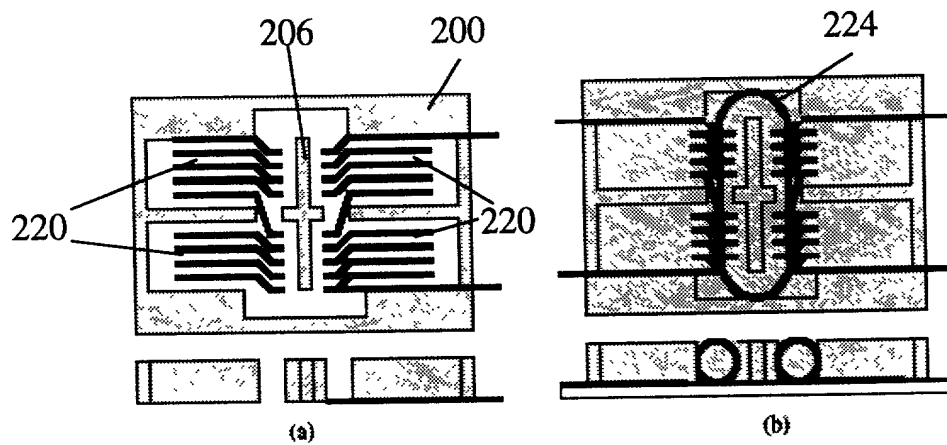


Figure 47



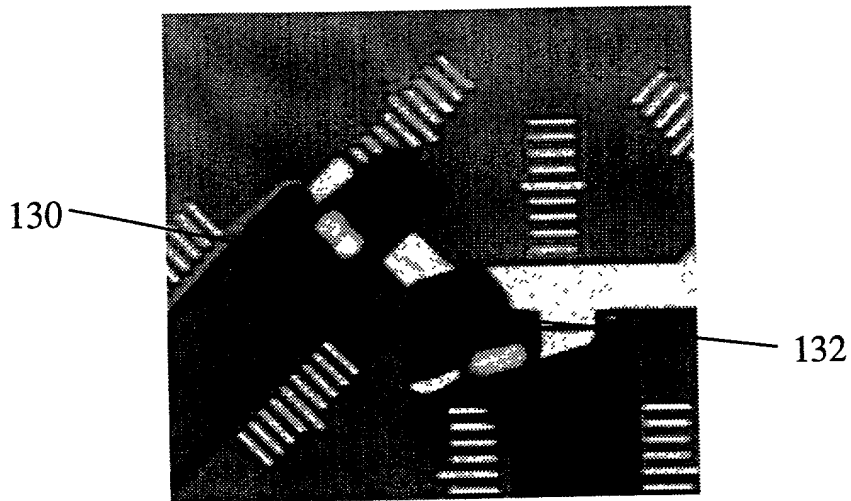


Figure 48

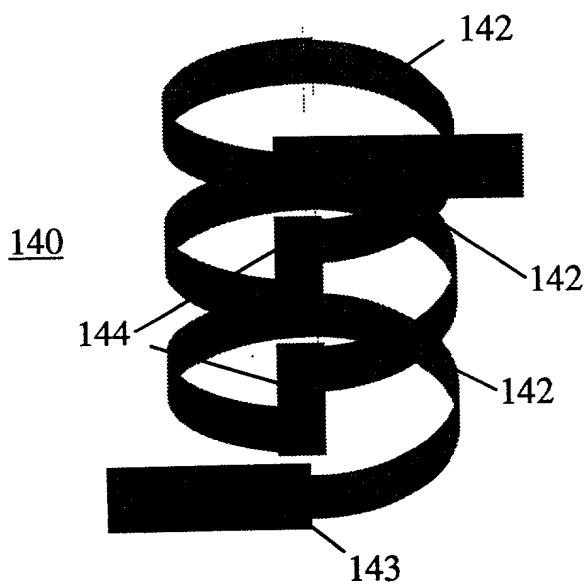


Figure 49

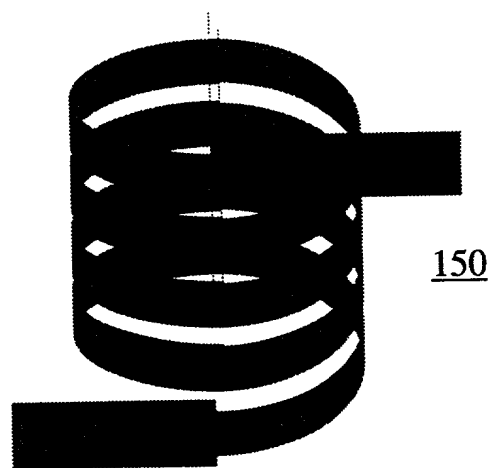


Figure 50

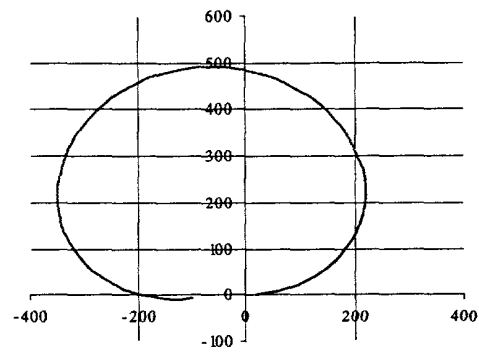


Figure 51

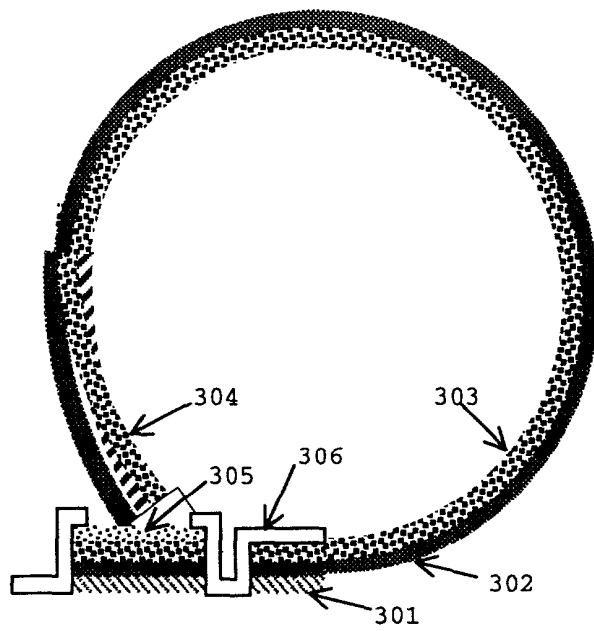


Figure 52

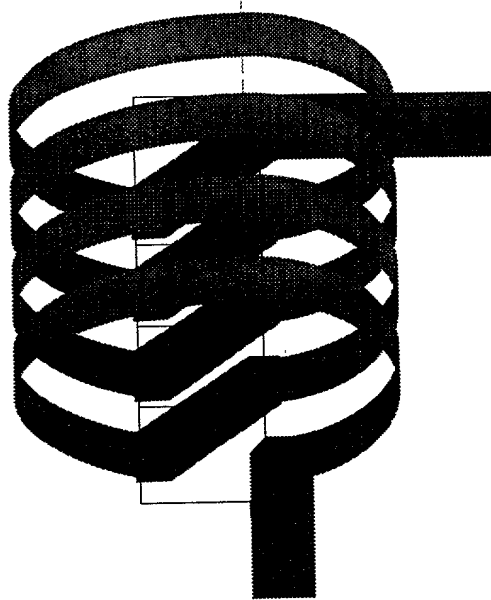
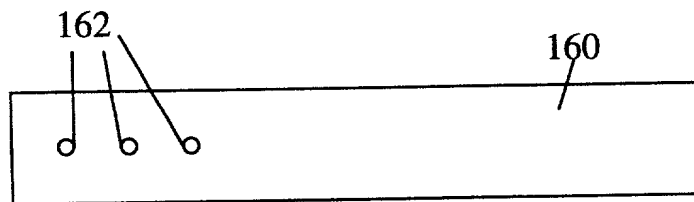
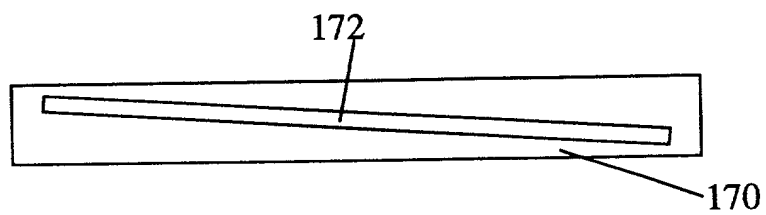


Figure 53



(a)



(b)

Figure 54

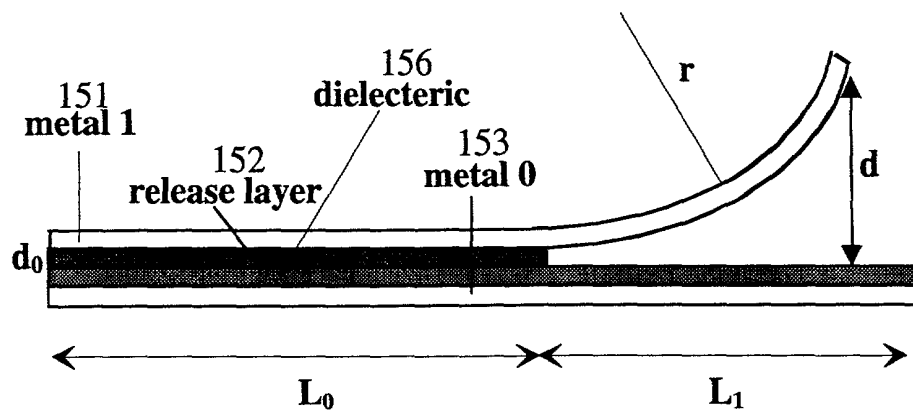


Figure 55

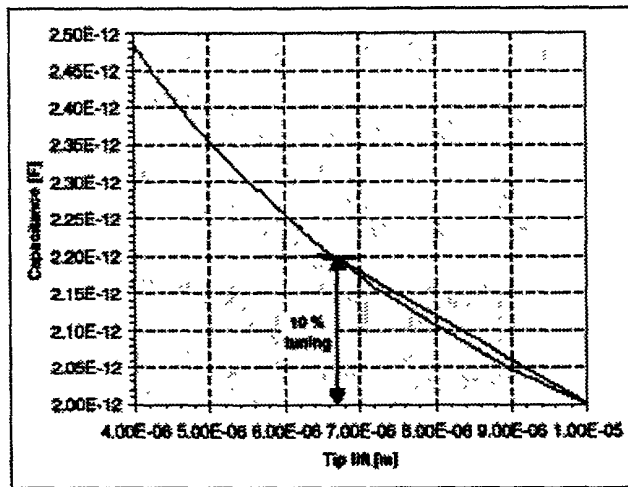


Figure 56

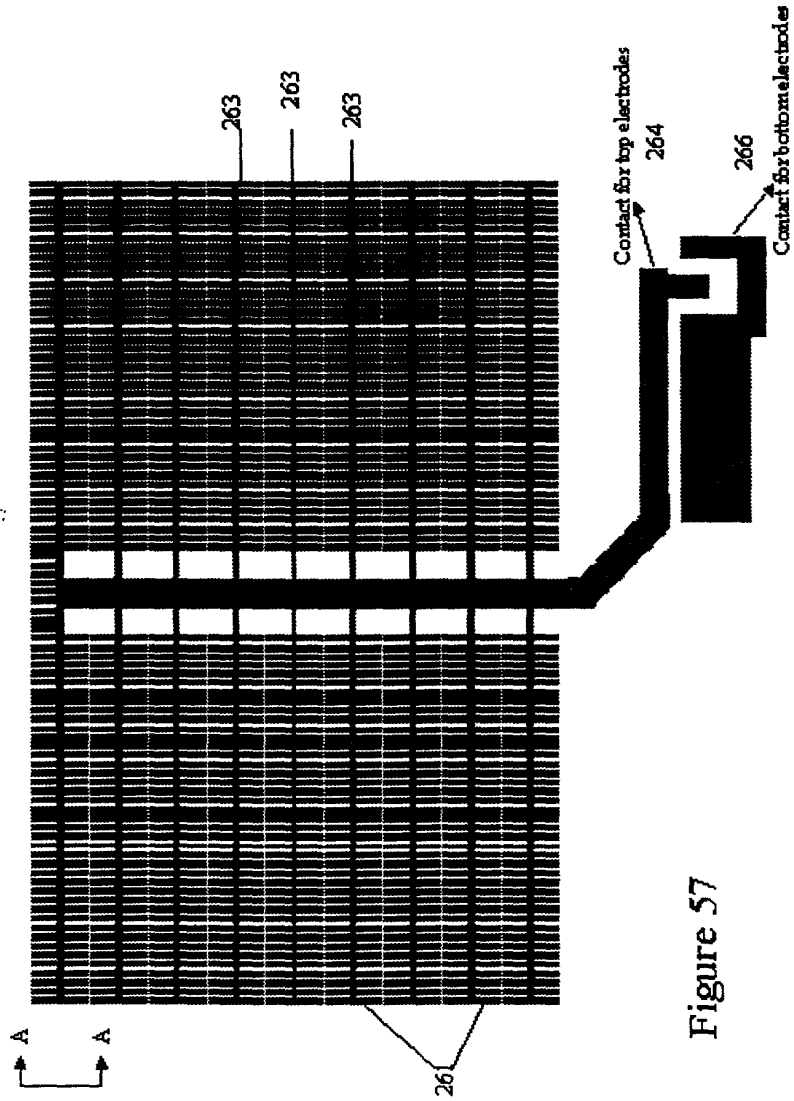


Figure 57

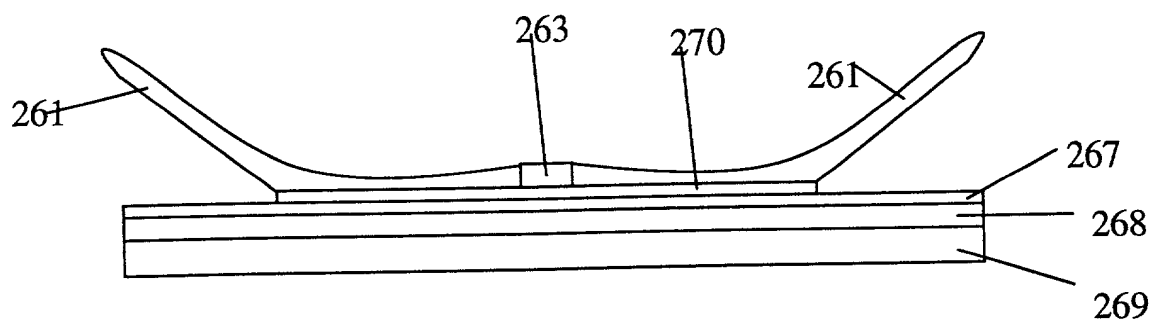


Figure 58

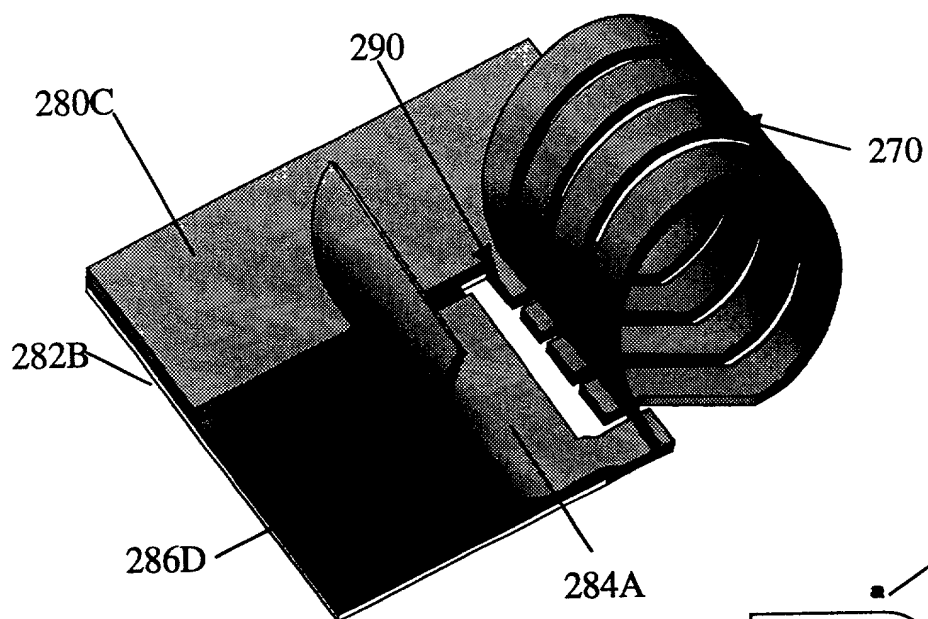


Figure 59

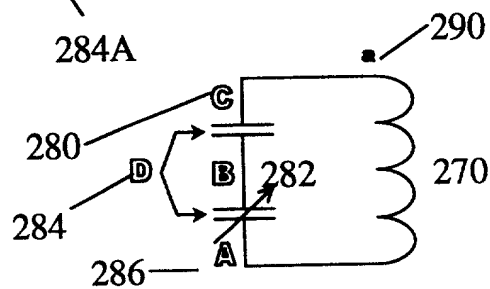


Figure 60